

Mineral Industry Surveys

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MANGANESE IN JULY 2002

In July, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 16,800 metric tons (t), which was a 55% decrease from that for the previous month, according to the U.S. Geological Survey. The figure for July increases to 19,700 t when estimates for annual respondents are added on the basis of 2000 data. Corresponding industry stocks of ore at the end of the month were 197,000 t, which includes an estimate for annual respondents on the basis of 2000 data. This was an increase of about 6% from that of the previous month. (Data for the most recent 13 months are plotted in the graph on page 2.)

Foreign trade data for July will appear in a subsequent report. The data for June tabulated in this report indicate that the total imports for consumption and total exports, on a manganese content basis, increased by 22% and 24%, respectively, from those for the previous month (table 1).

In July, the Indian Cabinet Committee on Disinvestment approved the sale of the Government's 51% shareholding in Manganese Ore India Ltd. (MOIL) to a strategic partner, along with the transfer of management control. Prior to the sale, the Indian Government held an 81.57% stake in the company. The Government will retain a 26% stake in the company after the

sale, with the remainder offered to company employees. MOIL derives its revenues from 10 manganese mines located in the states of Maharashtra and Madhya Pradesh, with current production at 700,000 metric tons per year (Metal Bulletin, 2002b; Mining Journal, 2002a).

Also in July, Consolidated Minerals Ltd. (CML) announced a long-term mining plan for its Woodie Woodie manganese operation in Western Australia beginning in 2003. The plan calls for a 10-year mine life, rather than the 6 years originally expected, coupled with continuing exploration. CML is projecting an annual mine production rate of 350,000 t for the life of the mine (Metal Bulletin, 2002a; Mining Journal, 2002b).

References Cited

- Metal Bulletin, 2002a, Consolidated Minerals expands Woodie Woodie manganese project: Metal Bulletin, no. 8689, July 8, p.8.
- Metal Bulletin, 2002b, India outlines MOIL sell-off: Metal Bulletin, no. 8692, July 18, p. 7.
- Mining Journal, 2002a, Indian manganese privatisation: Mining Journal, v. 339, no. 8694, July 19, p. 40.
- Mining Journal, 2002b, Woodie Woodie optimisation: Mining Journal, v. 339, no. 8692, July 5, p. 12.

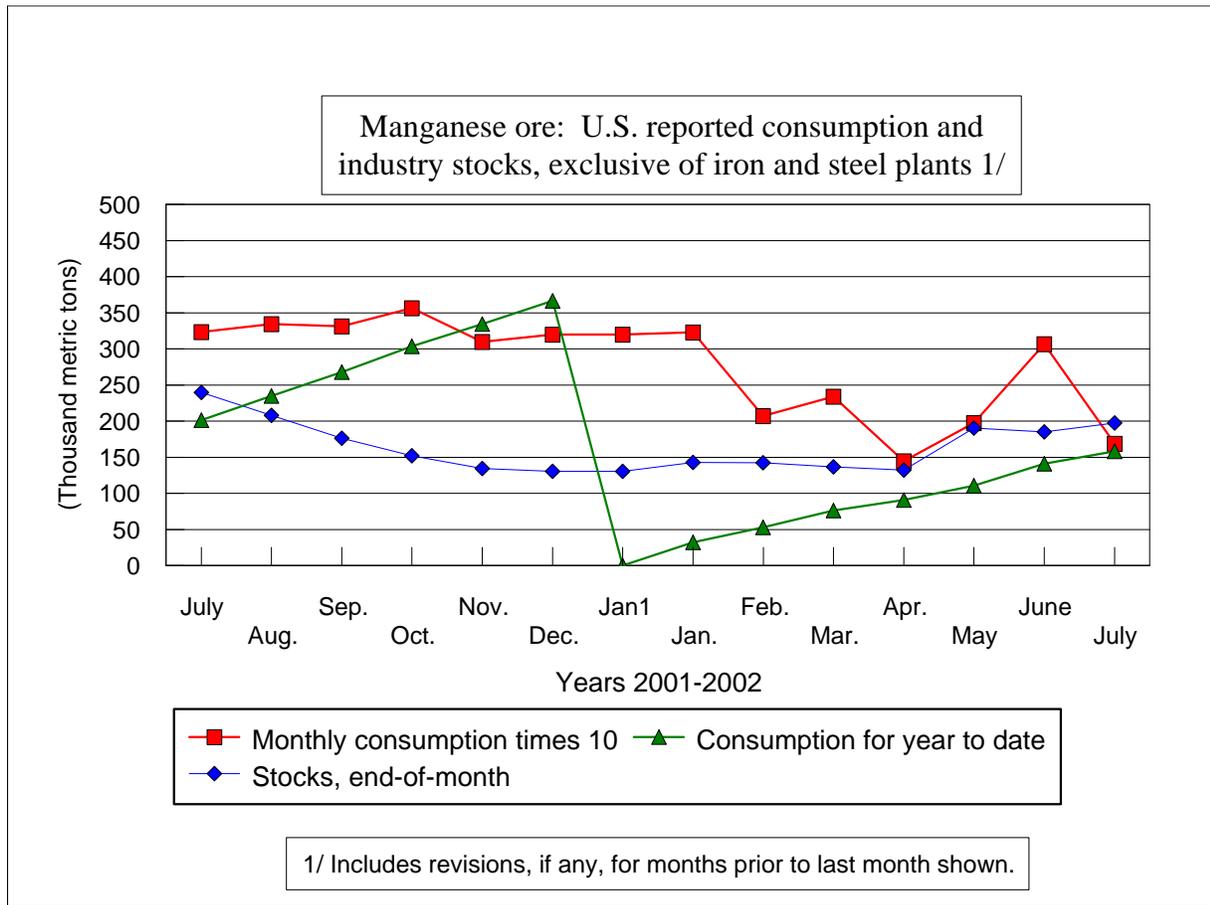


TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2001:						
June	11,100	32,000	43,100	200	655	855
January-June	123,000	197,000	320,000	1,940	5,110	7,050
2002:						
January	23,900	42,200	66,100	775	1,050	1,830
February	34,400	29,700	64,000	453	774	1,230
March	19,300	19,000	38,300	401	930	1,330
April	34,600	35,500	70,100	775	919	1,700
May	1,670	16,800	18,500	643	806	1,450
June	36,100 3/	21,100	57,100	774	1,020	1,800
Total	150,000	164,000	314,000	3,820	5,500	9,330

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

3/ All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	9,520	6,310	\$3,790,000	26,000	17,200	\$10,600,000
Brazil	--	--	--	3	2	2,960
Canada	--	--	--	145	96	32,800
France	--	--	--	2	1	2,000
Georgia	--	--	--	4,860	3,680	2,180,000
India	--	--	--	770	424	446,000
Korea, Republic of	--	--	--	3,000	1,980	1,250,000
Mexico	--	--	--	1,300	849	618,000
Norway	1,000	608	615,000	3,250	1,930	1,950,000
Romania	--	--	--	7,290	4,800	3,340,000
South Africa	6,400	4,230	2,570,000	57,400	38,400	23,900,000
Spain	--	--	--	1,020	628	619,000
Total	16,900	11,200	6,970,000	105,000	70,000	44,900,000
Total, general imports	16,900	11,200	6,970,000	105,000	70,300	45,300,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
Canada	--	--	--	21	17	\$16,600
China	136	129	\$128,000	1,140	1,060	1,150,000
Japan	--	--	--	5	4	7,260
Mexico	--	--	--	19	16	25,500
Norway	290	236	212,000	511	414	388,000
South Africa	360	335	448,000	2,880	2,660	3,540,000
Total, low carbon	786	699	789,000	4,570	4,180	5,130,000
Total, general imports of low carbon	786	699	789,000	4,570	4,180	5,130,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	40	30	36,100
China	--	--	--	1,500	1,200	796,000
Japan	--	--	--	22	18	22,900
Korea, Republic of	--	--	--	1,500	1,200	780,000
Mexico	376	288	312,000	2,680	2,110	1,860,000
Norway	20	16	11,500	1,100	897	556,000
South Africa	2,940	2,370	1,240,000	6,500	5,250	3,170,000
Total, m.c., 1%-2% C	3,340	2,680	1,560,000	13,300	10,700	7,220,000
Total, general imports of m.c., 1%-2% C	3,340	2,680	1,560,000	13,300	10,700	7,220,000
High carbon:						
France	--	--	--	18,300	15,300	6,400,000
India	--	--	--	19,700	15,000	7,710,000
South Africa	5,810	4,530	2,100,000	48,700	38,000	17,200,000
Total, high carbon	5,810	4,530	2,100,000	86,700	68,300	31,400,000
Total, general imports of high carbon	5,810	4,530	2,100,000	86,700	68,300	31,400,000
Grand total	9,930	7,910	4,440,000	105,000	83,200	43,700,000
Grand total, general imports	9,930	7,910	4,440,000	105,000	83,200	43,700,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN JUNE 2002 1/ 2/

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Belgium	--	--	18	13	18	13
Brazil	--	--	34 3/	34 3/	34	34
Gabon	--	--	42,200	20,200	42,200	20,200
South Africa	--	--	27,500	13,100	27,500	13,100
Total	--	--	69,800	33,400	69,800	33,400
Year to date:						
Australia	--	--	21,400	11,300	21,400	11,300
Belgium	--	--	109	77	109	77
Brazil	29,900	12,800	34	34	29,900	12,800
France	--	--	10	10	10	10
Gabon	36,100	15,900	133,000	71,900	169,000	87,800
Morocco	--	--	20	17	20	17
South Africa	--	--	59,600	29,000	59,600	29,000
Total	66,000	28,700	214,000	112,000	280,000	141,000

-- Zero.

1/ Quantities for general imports and imports for consumption are identical.

2/ Data are rounded to no more than three significant digits; may not add to totals shown.

3/ All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN JUNE 2002 1/

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	3,360	\$4,590,000	9,560	\$13,200,000	--	--	--	--
Belgium	18	27,700	328	591,000	--	--	(2/)	(2/)
Canada	--	--	--	--	--	--	--	15
China	--	--	197	198,000	859	2,080	5	74
France	--	--	--	--	--	--	6	43
Germany	6	33,600	40	153,000	99	1,860	5	14
Greece	16	23,000	309	401,000	--	--	--	--
Ireland	667	780,000	2,820	3,670,000	--	--	--	--
Japan	311	525,000	1,000	1,690,000	--	--	--	11
Mexico	--	--	25	184,000	--	--	--	--
Netherlands	--	--	91	122,000	--	--	19	62
Poland	--	--	--	--	--	--	--	20
South Africa	61	97,200	367	605,000	986	5,660	--	--
Spain	--	--	--	--	--	136	--	--
United Kingdom	--	--	93	130,000	--	40	--	(2/)
Total	4,440	6,080,000	14,800	20,900,000	1,940	9,770	35	240
Total, general imports	4,440	6,080,000	14,900	21,000,000	1,940	9,770	35	240

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 45 tons, of which 33 tons was from Canada and 12 tons was from France, to give a year-to-date total of 1,930 tons.

Source: U.S. Census Bureau.

TABLE 6
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2002 1/

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 2/	
	June	Year to date	June	Year to date	June	Year to date	June	Year to date
Australia	--	46	--	5	--	9	--	--
Belgium	--	--	--	--	--	--	80	461
Brazil	120	151	--	8	3	11	4	4
Canada	326	1,740	743	3,520	2	185	6	106
China	--	1,190	--	--	--	--	--	67
Dominican Republic	--	22	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	1	1
France	--	--	--	--	22	22	--	--
Germany	410	769	--	--	--	--	--	9
Ghana	--	--	--	16	--	--	--	--
Hong Kong	--	18	--	--	--	1	--	(3/)
Indonesia	--	30	--	--	--	--	--	--
Italy	252	675	--	--	--	--	--	15
Japan	--	--	14	60	--	--	164	576
Korea, Republic of	--	--	--	--	--	--	1	12
Mexico	--	1,160	--	34	--	56	8	43
Netherlands	195	557	--	--	--	4	2	2
Norway	--	457	--	--	--	--	--	3
Poland	39	175	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	20	20
Singapore	--	--	--	--	--	--	(3/)	(3/)
Spain	--	--	--	--	4	4	--	--
Sri Lanka	--	--	--	--	--	5	--	--
Sweden	205	351	--	--	--	--	--	18
Switzerland	--	29	--	--	--	--	--	--
Taiwan	--	15	--	--	--	--	--	21
United Kingdom	--	265	--	--	--	--	--	(3/)
Total	1,550	7,640	757	3,650	31	297	286	1,360

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

3/ Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 149 tons, all of which went to Canada, to give a year-to-date total of 1,360 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2002, BY CLASS 1/

Class	Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)	Year to date		Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)
				Gross weight (metric tons)	Value 2/ (thousands)	
Imports for consumption:						
Manganese oxides other than dioxide	276	\$260	Mexico 191; \$65	1,230	\$1,140	Mexico 853; \$293
Sulfates, basket category, including manganese sulfate	1,700	1,380	Mexico 506; \$374	19,600	11,800	Mexico 9,970; \$5,100
Potassium permanganate	129	253	Czech Republic 96; \$185	964	1,560	China 405; \$500
Manganites, manganates, and other permanganates	--	--	XX	56	52	China 56; \$50
Exports:						
Manganese dioxide	257	317	Canada 116; \$38	1,940	1,720	Canada 1,250; \$404
Manganese oxides other than dioxide	378	374	Canada 216; \$91	2,310	2,490	Canada 1,470; \$584
Sulfates, basket category, including manganese sulfate	1,130	476	Canada 965; \$271	10,500	6,140	Canada 9,130; \$2,670
Potassium permanganate	65	120	Canada 20; \$38	294	634	Canada 171; \$293
Manganites, manganates, and other permanganates	57	265	Japan 27; \$147	130	640	Japan 77; \$378

XX Not applicable. -- Zero.

1/ Data are rounded to no more than three significant digits.

2/ For imports, Customs value; for exports, f.a.s. value.

Source: U.S. Census Bureau.